



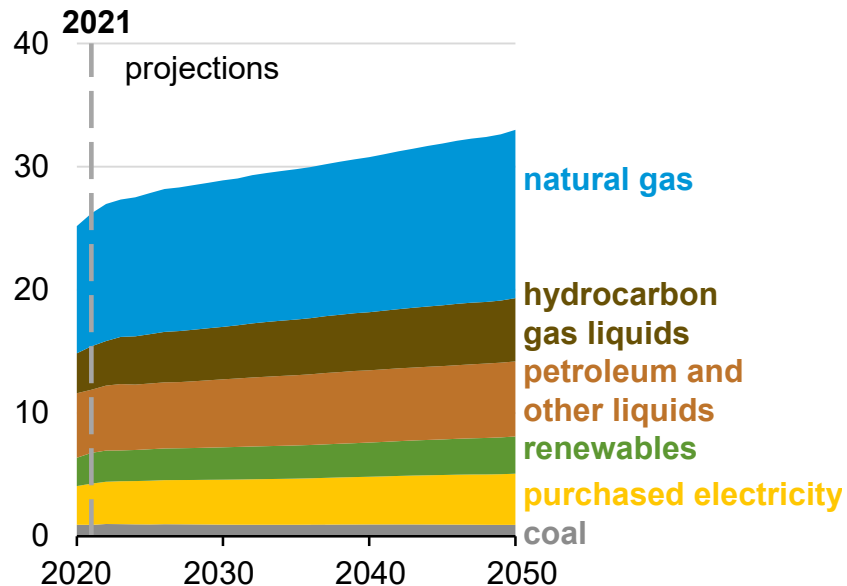
Industrial



# Industrial sector energy consumption

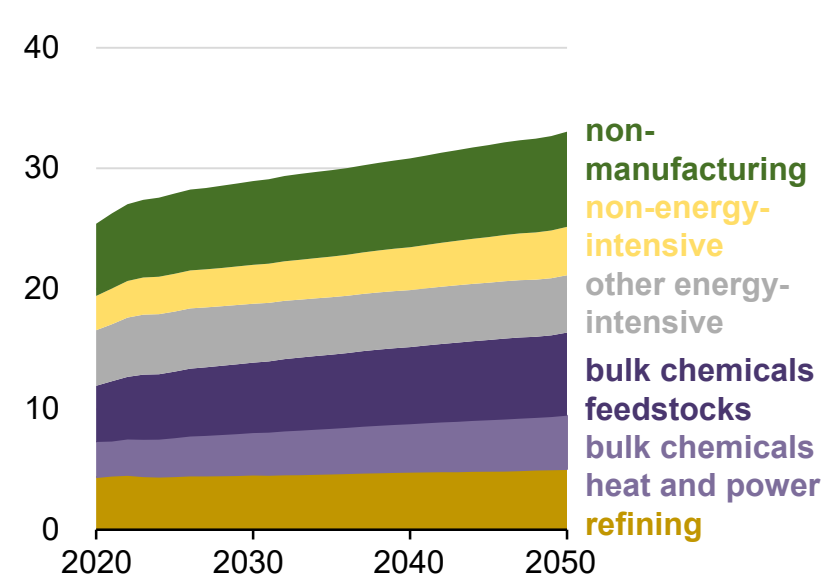
## Industrial energy consumption by fuel

**AEO2022 Reference case**  
quadrillion British thermal units



## Industrial energy consumption by subsector

**AEO2022 Reference case**  
quadrillion British thermal units

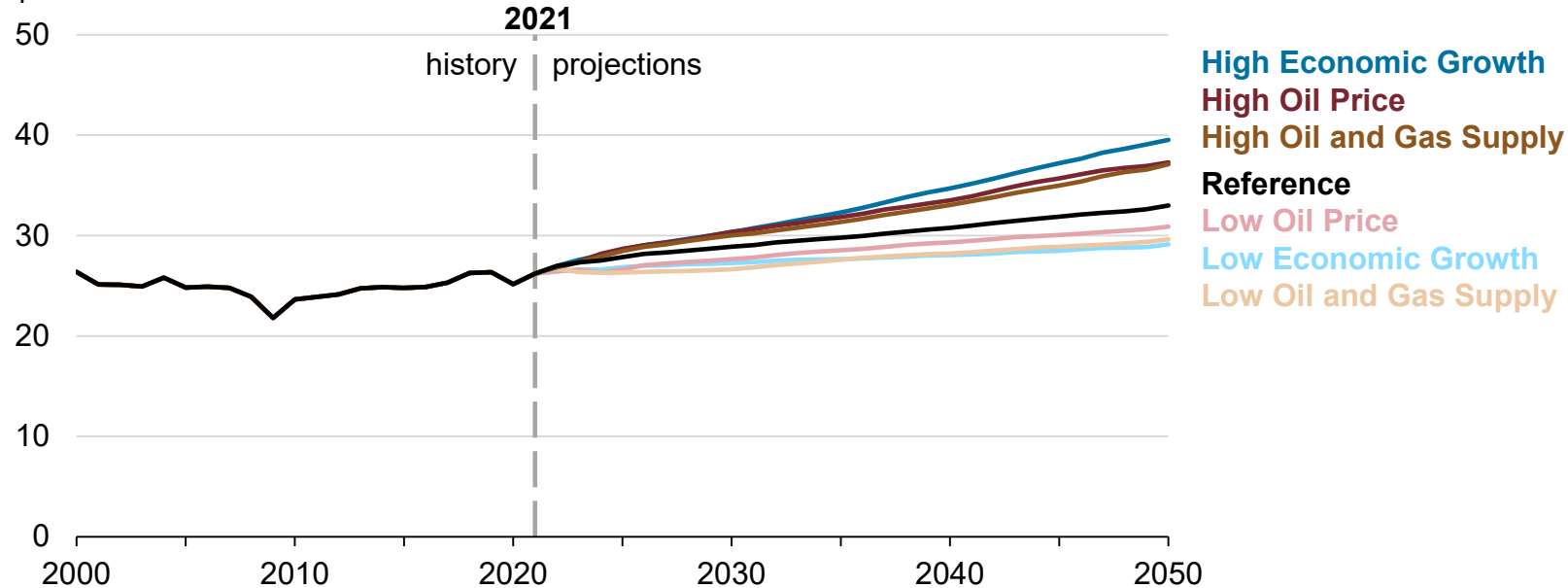




# Industrial sector delivered energy consumption across cases

**Industrial delivered energy consumption**  
**AEO2022 selected side cases**

quadrillion British thermal units



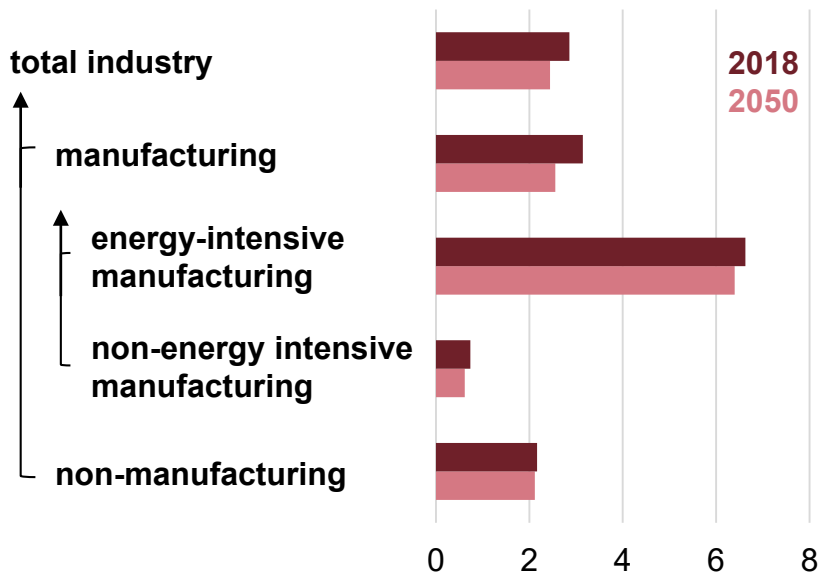


# Industrial sector energy intensity

## Energy intensity by subsector

### AEO2022 Reference case

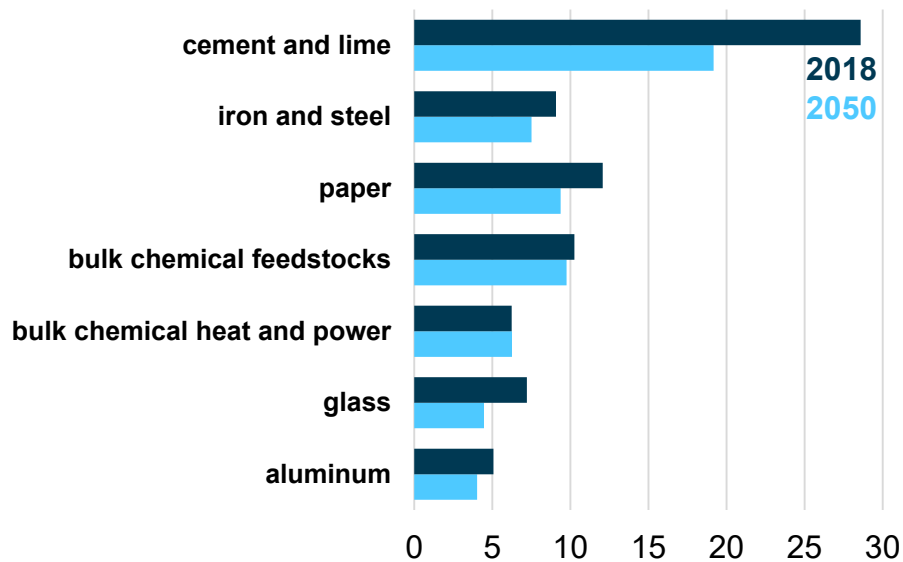
trillion British thermal units per billion 2012 dollar shipments



## Energy-intensive manufacturing by industry

### AEO2022 Reference case

trillion British thermal units per billion 2012 dollar shipments



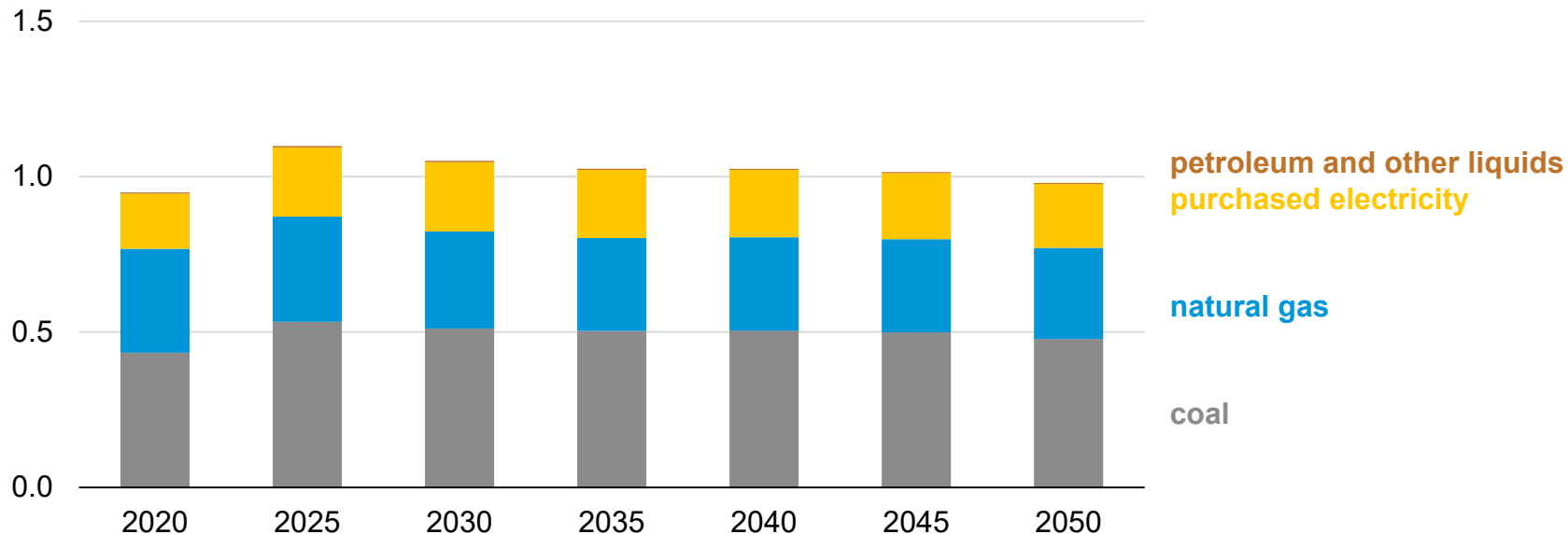


# Iron and steel industry energy consumption by source

## Iron and steel industry energy consumption by source

### AEO2022 Reference case

quadrillion British thermal units



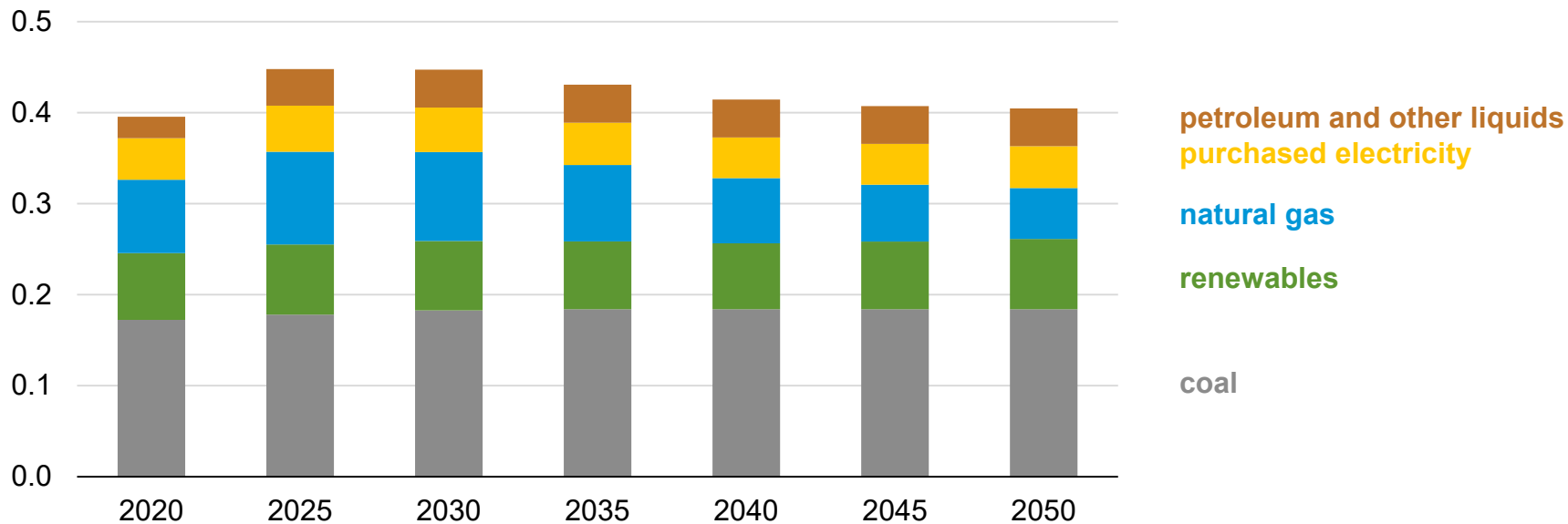


# Cement and lime industry energy consumption by source

## Cement and lime industry energy consumption by source

### AEO2022 Reference case

quadrillion British thermal units



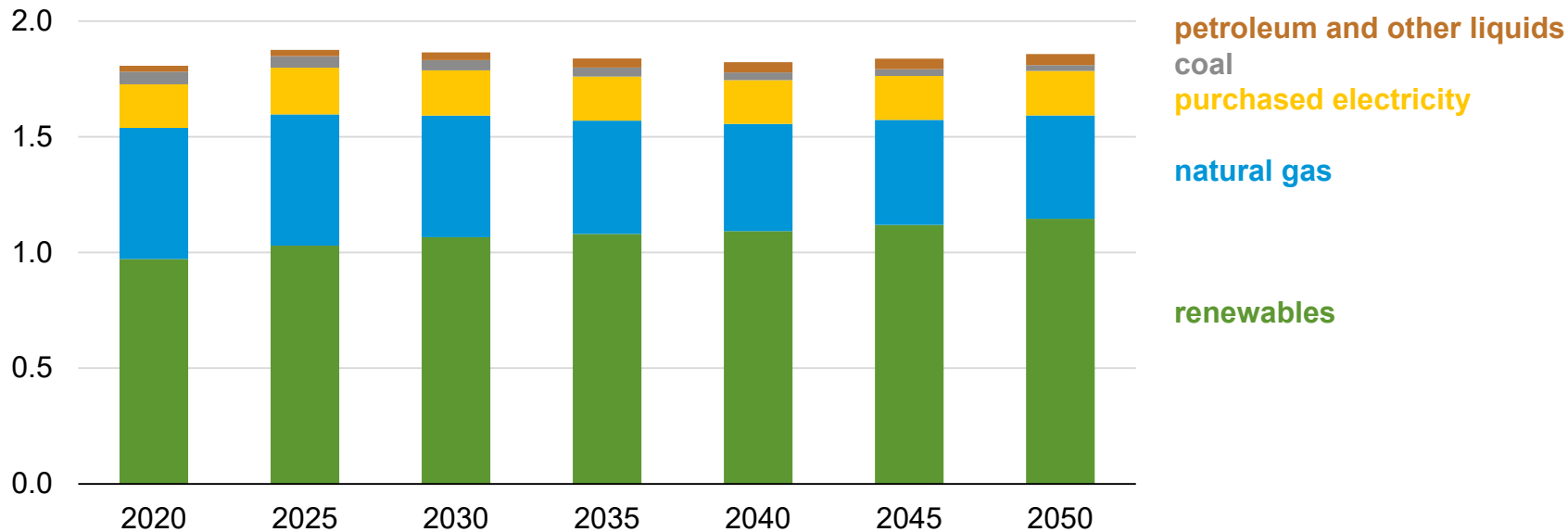


# Pulp and paper industry energy consumption by source

## Pulp and paper industry energy consumption by source

### AEO2022 Reference case

quadrillion British thermal units



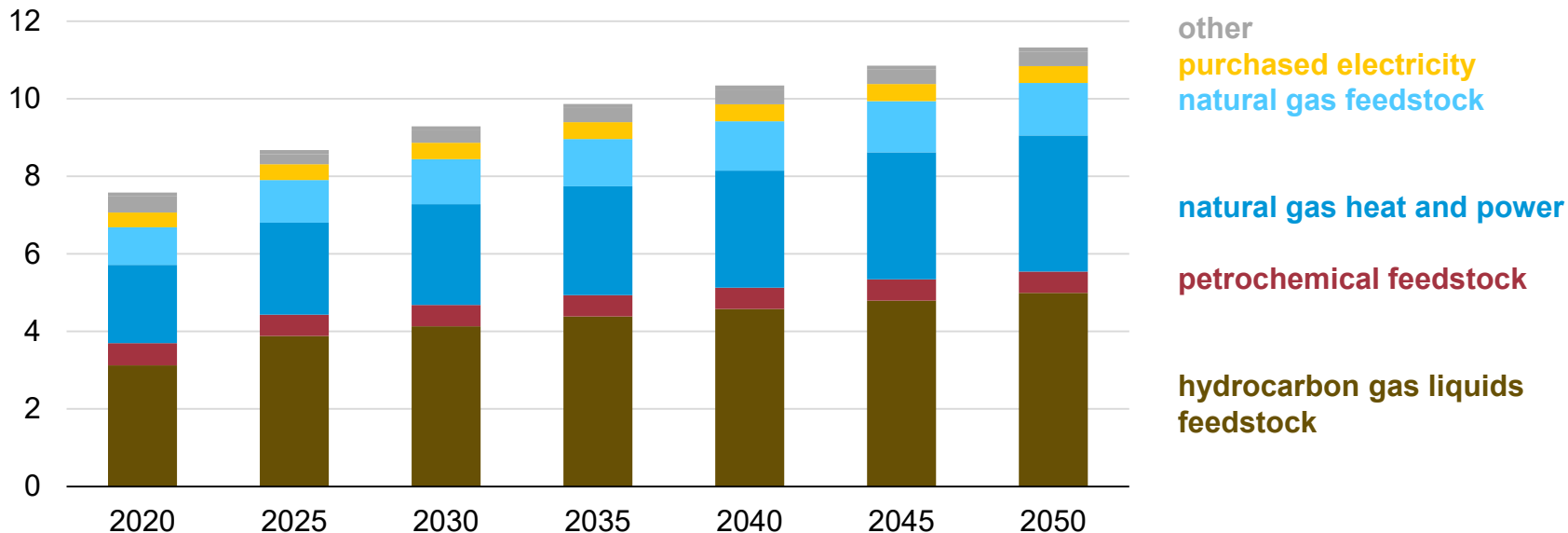


# Bulk chemicals industry energy consumption by source

## Bulk chemicals industry energy consumption by source

### AEO2022 Reference case

quadrillion British thermal units



Note: Other includes coal, renewables, and other petroleum.



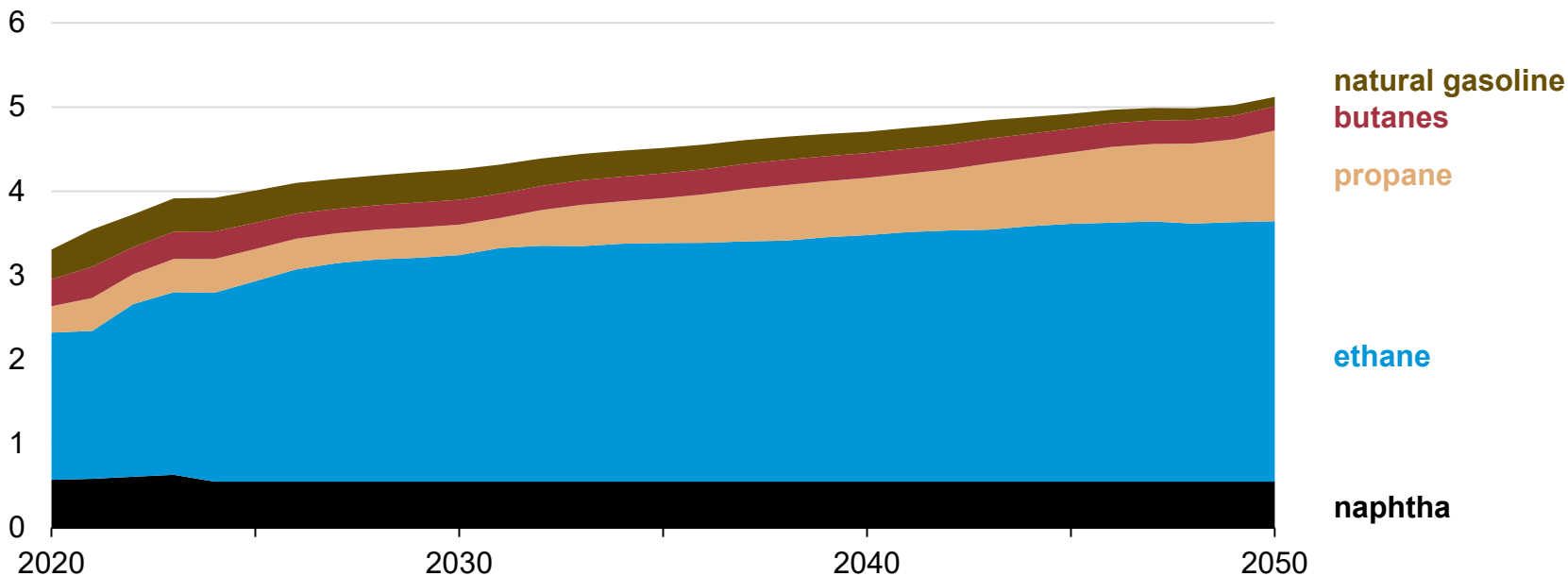


# Hydrocarbon gas liquid and naphtha feedstocks consumed for chemical production

## Hydrocarbon gas liquid (HGL) and naphtha chemical feedstocks

**AEO2022 Reference case**

quadrillion British thermal units



Note: Excludes propylene.

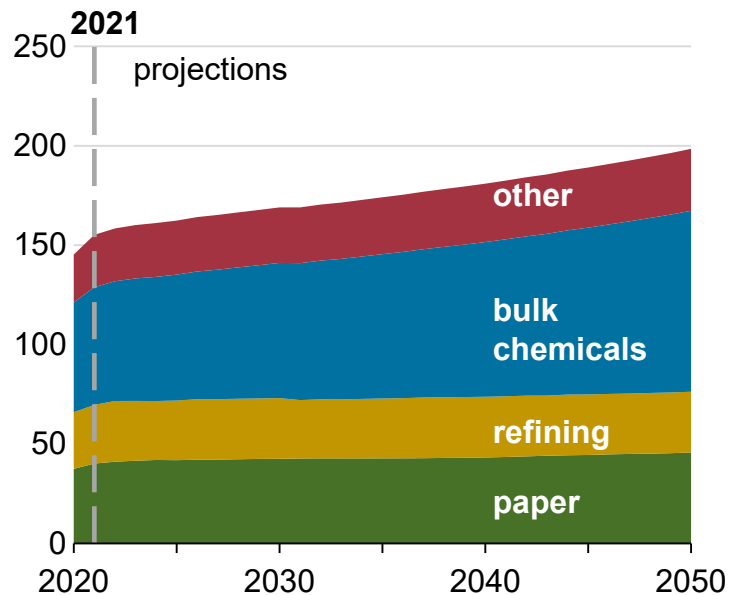


# Industrial sector combined-heat-and-power (CHP) generation

## CHP generation by industry

### AEO2022 Reference case

billion kilowatthours

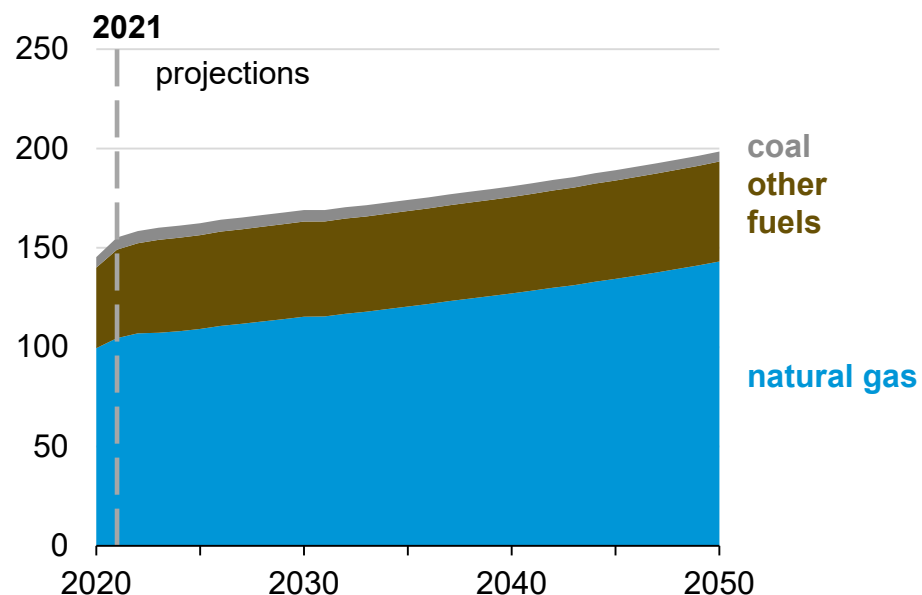


Note: Other fuels includes renewables and other petroleum.

## CHP generation by fuel

### AEO2022 Reference case

billion kilowatthours

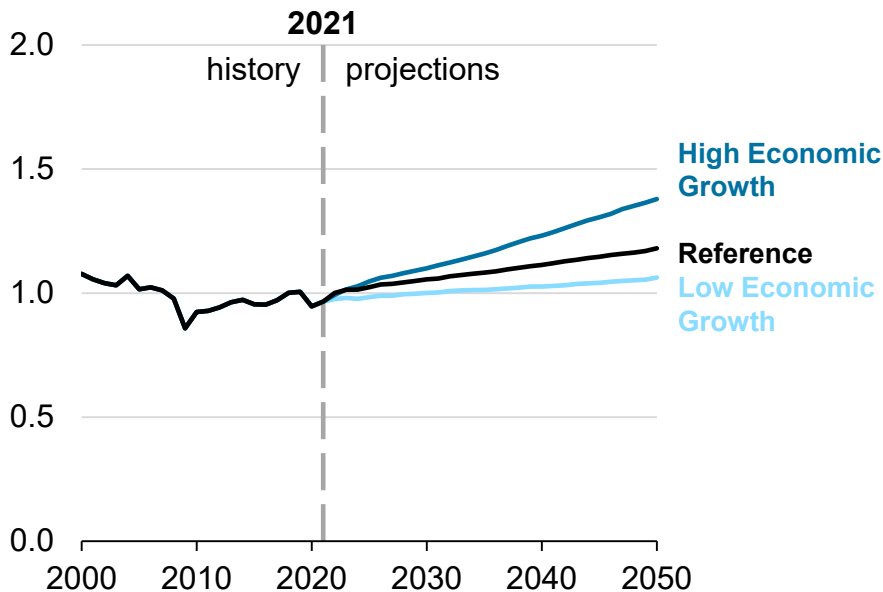




# Industrial sector CO<sub>2</sub> emissions and CO<sub>2</sub> intensity

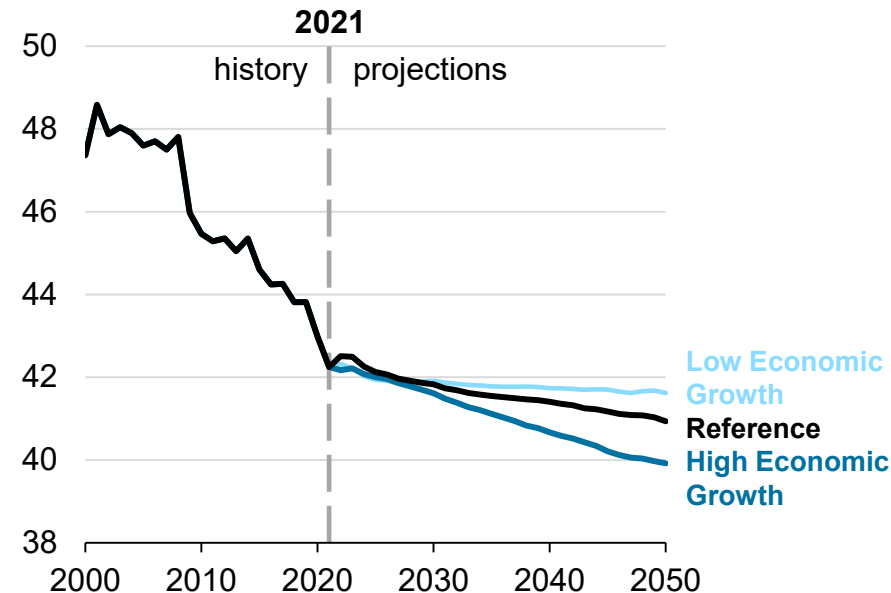
## Industrial sector CO<sub>2</sub> emissions AEO2022 economic growth cases

billion metric tons of CO<sub>2</sub>



## Industrial sector CO<sub>2</sub> intensity AEO2022 Reference case

metric tons of CO<sub>2</sub> per billion British thermal units



Note: Series does not include greenhouse gases other than CO<sub>2</sub>. Industrial sector CO<sub>2</sub> emissions do not include process emissions, such as the emissions from cement clinker production. Series excludes power sector emissions.